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(12)

EUROPEAN PATENT APPLICATION

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PT SE

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(62) Document number(s) of the earlier application(s) in accordance with Art. 76 EPC: 95908707.3 / 0 742 984

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Gibson, Robert F.
 Pittsburgh, PA 15236 (US)

Harn, John H.
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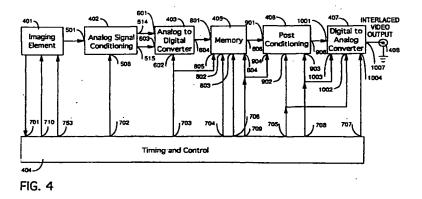
 Hucke, Lloyd R., III Library, PA 15129 (US)

 (74) Representative: Howe, Steven et al Lloyd Wise, Tregear & Co., Commonwealth House,
 1-19 New Oxford Street London WC1A 1LW (GB)

(54) Apparatus and method for creating film-like video

(57) A video camera for real time simulation of the visual appearance of motion picture film that has been transferred or converted to a video signal comprising analog signal input conditioning circuitry (402), an analog to digital converter (403), timing and control circuitry (404), an address multiplexer and memory control (405), a digital adder (406), and a digital to analog converter (407). A method for creating the look of broadcast

motion picture film comprising the steps of increasing the scan rate of image sensors to output non-interlaced video images, converting the video images from analog to digital form, writing the images to memory, adding a selective adjustable amount of two dimensional, electronic artifacts to simulate film grain, reading the video images from memory to a video output data bus at predetermined rates, and converting the video images from digital to analog form for recording or broadcast.





Application Number EP 01 20 3471

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Y	* column 4, line 14 * column 5, line 7 * column 6, line 37	- line 46 * - line 32 *	4		
Α	* figure 1 *		2,3,5,6		
Y .	US 3 832 487 A (DE 27 August 1974 (197 * column 2, line 10	4-08-27)	4		
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				SEARCHED (nt.Cl.7)
				HO4N	
1	The present search report has be	een drawn up for all claims			
	Place of search	Date of completion of the search	zh .	Examiner	
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FORM PO459



Europäisches Patentamt

European Patent Office

Office européen des brevets



(11) EP 1 215 624 A3

(12)

EUROPEAN PATENT APPLICATION

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(51) Int Cl.7: G06T 1/00

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(21) Application number: 01204593.6

(22) Date of filing: 30.11.2001

(84) Designated Contracting States:

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU

MC NL PT SE TR

Designated Extension States:

AL LT LV MK RO SI

(30) Priority: 13.12.2000 US 736067

(71) Applicant: EASTMAN KODAK COMPANY Rochester, New York 14650-2201 (US) (72) Inventors:

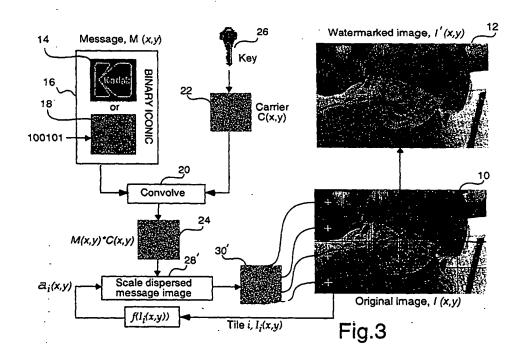
 Jones, Paul William Rochester, New York 14650-2201 (US)

Honsinger, Chris W.
 Rochester, New York 14650-2201 (US)

(74) Representative: Haile, Helen Cynthia et al Kodak Limited Patent, W92-3A, Headstone Drive Harrow, Middlesex HA1 4TY (GB)

- (54) System and method for embedding a watermark signal that contains message data in a digital image
- (57) A method for embedding a watermark signal that contains message data in a digital image represented as a two-dimensional array of pixel values, includes the steps of: providing a dispersed message image having pixel values representative of the message data;

modifying each pixel value of the dispersed message image as a function of the corresponding pixel value in the digital image; and combining the modified dispersed message image with the digital image to produce a watermarked image.





Application Number

EP 01 20 4593

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	The present search report has b	een drawn up for all claims		
	Place of search	Date of completion of the search		Examiner
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X : partic Y : partic docur A : techi O : non-	TEGORY OF CITED DOCUMENTS cularly relevant if taken alone cularly relevant if combined with anothment of the same category nological background written disclosure mediate document	E : earlier patent d after the filing d er D : document cited L : document cited	l in the application for other reasons	shed on, or



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					TECHNICAL SEARCHED	FIELDS (Int.CI.7)
	The present search report has b	peen drawn up for all claims				
	Place of search	Date of completion of the	e search	<u>,</u>	Examiner	
	BERLIN	10 October	2003	dos	Santos,	L
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10-10-2003

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11 Publication number:

0 373 615 A3

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EUROPEAN PATENT APPLICATION

21 Application number: 89123015.3

(1) Int. Ci.5: H01F 10/14, H01F 10/18

(2) Date of filing: 13.12.89

Priority: 15.12.88 JP 317475/88
 16.12.88 JP 319089/88
 06.10.89 JP 262405/89
 06.10.89 JP 262406/89

Date of publication of application:
20.06.90 Bulletin 90/25

Designated Contracting States:
DE FR GB

Date of deferred publication of the search report:

17.10.90 Bulletin 90/42

 Applicant: Matsushita Electric Industrial Co., Ltd.
 1006, Oaza Kadoma Kadoma-shi, Osaka-fu(JP)

(2) Inventor: Ihara, Keita 1-307, Myokenzaka-5-chome Katano-shi(JP) Inventor: Sakakima, Hiroshi 28-15, Katahokohonmachi Hirakata-shi(JP) Inventor: Osano, Koichi 2-4-302, Kamotanidai-3-chome Sakai-shi(JP)

Representative: Patentanwälte Leinweber & Zimmermann
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Soft magnetic alloy films and the method of manufacturing the same.

57 A nitrogen-containing Fe-based soft magnetic alloy suitable for use as the material of a magnetic head core, as well as a method for manufacturing the soft magnetic ally film. Unlike a mere nitride alloy film, the soft magnetic alloy of the present invention has a compositionally modulated structure in which at least the nitrogen content is periodically modulated in the direction of thickness of the film so as to have a nitride layer rich at least in nitrogen and a non-nitride layer poor at least in nitrogen. The soft magnetic alloy film of the invention comprises a main constituent of Fe, at least one metalloid element selected from the group consisting of B, Si and C, and at least one metal element selected from the group consisting of Nb, Ta, Zr and Ti and has fine Fe-based grains included therein. By virtue of these film structure and film composition, the soft magnetic alloy film of the invention exhibits superior magnetic characteristics such as low coercive force, high saturation magnetization and low magnetostriction, as well as superior resistance both to corrosion

and wear. The method of the invention is for forming the soft magnetic alloy of the invention, and has the steps of forming by sputtering a compositionally modulated nitride ally film, and then effecting on the compositionally modulated nitride alloy film a high-temperature heat treatment so as to cause a change in a film structure to form the soft magnetic alloy film.





EP 89 12 3015

1	DOCUMENTS CONSII	DERED TO BE RELEV	ANT	
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	The present search report has l	been drawn up for all claims		
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	Place of search	Date of completion of the sec 25-07-1990		Examiner OCKE S.

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- X: particularly relevant if taken alone
 Y: particularly relevant if combined with another document of the same category
 A: technological background
 O: non-written disclosure
 P: intermediate document

- T: theory or principle underlying the invention
 E: earlier patent document, but published on, or
 after the filing date
 D: document cited in the application
 L: document cited for other reasons
- &: member of the same patent family, corresponding document

(19) World Intellectual Property Organization

International Bureau



| (1885 | 1885) | 1886 | 1886 | 1886 | 1886 | 1886 | 1886 | 1886 | 1886 | 1886 | 1886 | 1886 | 1886 | 1886 | 1

(43) International Publication Date 2 December 2004 (02.12.2004)

PCT

(10) International Publication Number WO 2004/105250 A3

(51) International Patent Classification⁷: H04N 5/262

G06T 9/00,

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(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data: 60/470,712

15 May 2003 (15.05.2003) US

(71) Applicant (for all designated States except US): THOM-SON LICENSING S.A. [FR/FR]; 46, Quai A. Le Gallo, F-92648 Boulogne (FR).

(72) Inventors; and

(75) Inventors/Applicants (for US only): GOMILA, Cristina [ES/US]; 25C Chestnut Court, Princeton, NJ 08540 (US). KOBILANSKY, Alexander [US/US]; 17 Seneca Road, Ossining, NY 10562 (US).

(74) Agents: TRIPOLI, Joseph, S. et al.; Thomson Licensing Inc., Two Independence Way, Suite #200, Princeton, NJ 08540 (US).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

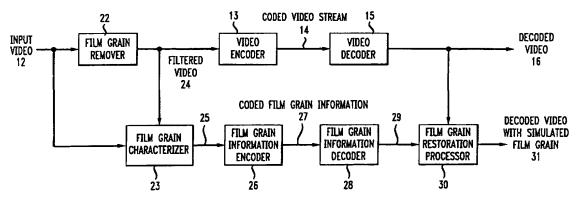
(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

- with international search report
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments
- (88) Date of publication of the international search report: 24 March 2005

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: METHOD AND APPARATUS FOR REPRESENTING IMAGE GRANULARITY BY ONE OR MORE PARAMETERS



(57) Abstract: To simulate film grain in a compressed video signal, a decoder (15, 28) receives a message containing information that contains a set of one or more parameters, each specifying certain attribute associated with the film grain. For example, one of the parameters will specify the model used to simulate the film grain, whereas other parameters each specify a particular factor associated with that model. Upon receipt of the message, the decoder selects the model, and simulates the film grain for addition to the video signal following decompression.





INTERNATIONAL SEARCH REPORT

i onal Application No

A. CLASSI IPC 7	FICATION OF SUBJECT MATTER G06T9/00 H04N5/262		
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	o International Patent Classification (IPC) or to both national classific	ation and IPC	
	SEARCHED cumentation searched (classification system followed by classification	ion symbols)	
IPC 7	GO6T HO4N		
Documenta	tion searched other than minimum documentation to the extent that s	such documents are included in the fields se	arched
Electronic d	iata base consulted during the international search (name of data ba	ase and, where practical, search terms used)
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			21,22
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	ent defining the general state of the art which is not dered to be of particular relevance	or priority date and not in conflict with died to understand the principle or the invention	
"E" earlier filing	document but published on or after the International date	"X" document of particular relevance; the c cannot be considered novel or cannot	lalmed Invention be considered to
L docume which	ent which may throw doubts on priority claim(s) or is cited to establish the publication date of another	involve a.n inventive step when the do "Y" document of particular relevance; the o	cument is taken alone
	on or other special reason (as specified) sent referring to an oral disclosure, use, exhibition or	cannot be considered to involve an in- document is combined with one or mo	ventive step when the ore other such docu-
"P" docum	means ent published prior to the International filing date but	ments, such combination being obvious in the art.	•
	han the priority date claimed actual completion of the international search	'&' document member of the same patent Date of mailing of the international sea	
	·		
	5 January 2005	02/02/2005	
Name and	mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2	Authorized officer	
	NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo ni, Fax: (+31-70) 440-3016	Herter, J	

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In anal Application No Full/US2004/009866

0.10	III A PAGUITING AGUIDEDED TA DE TEL TALLE	PC1/U32004/009800
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